## Problem 3 – Binary Digits

You are given a non-negative integer number **N**. Your task is to print the **last 16 bits** of the binary representation of **N** on the console. Every bit is printed in a rectangular area with **4 rows** and **3 columns**.

A bit with value of **1** should be printed in the format:

.#.  
##.  
.#.  
###

A bit with value of **0** should be printed in the format:

###  
#.#  
#.#  
###

Between every single bit there should be an **empty column containing only dots ("**.**").**

### Input

The input data should be read from the console.

On the only input line there will be a **non-negative integer number N** which bits must be printed on the console.

The input data will always be valid and in the format described. There is no need to check it explicitly.

### Output

The output should be printed on the console.

You should print **the last 16 bits** of **N** on the console in the described format.

Your output should contain exactly 4 lines with 63 symbols on each line. Symbols should be only hashes ("#") and dots (".").

### Constraints

* The number **N** will be a non-negative integer number between 0 and 2147483647, inclusive.
* The only C# Console methods that you are allowed to use are Console.Write() and Console.WriteLine(). This means that Console.SetCursorPosition() will not work.
* Allowed working time for your program: 0.10 seconds. Allowed memory: 16 MB.

### Examples

|  |  |
| --- | --- |
| **Input example** | **Output example** |
| 1 | ###.###.###.###.###.###.###.###.###.###.###.###.###.###.###..#.  #.#.#.#.#.#.#.#.#.#.#.#.#.#.#.#.#.#.#.#.#.#.#.#.#.#.#.#.#.#.##.  #.#.#.#.#.#.#.#.#.#.#.#.#.#.#.#.#.#.#.#.#.#.#.#.#.#.#.#.#.#..#.  ###.###.###.###.###.###.###.###.###.###.###.###.###.###.###.### |
| 1234 | ###.###.###.###.###..#..###.###..#...#..###..#..###.###..#..###  #.#.#.#.#.#.#.#.#.#.##..#.#.#.#.##..##..#.#.##..#.#.#.#.##..#.#  #.#.#.#.#.#.#.#.#.#..#..#.#.#.#..#...#..#.#..#..#.#.#.#..#..#.#  ###.###.###.###.###.###.###.###.###.###.###.###.###.###.###.### |
| 65535 | .#...#...#...#...#...#...#...#...#...#...#...#...#...#...#...#.  ##..##..##..##..##..##..##..##..##..##..##..##..##..##..##..##.  .#...#...#...#...#...#...#...#...#...#...#...#...#...#...#...#.  ###.###.###.###.###.###.###.###.###.###.###.###.###.###.###.### |